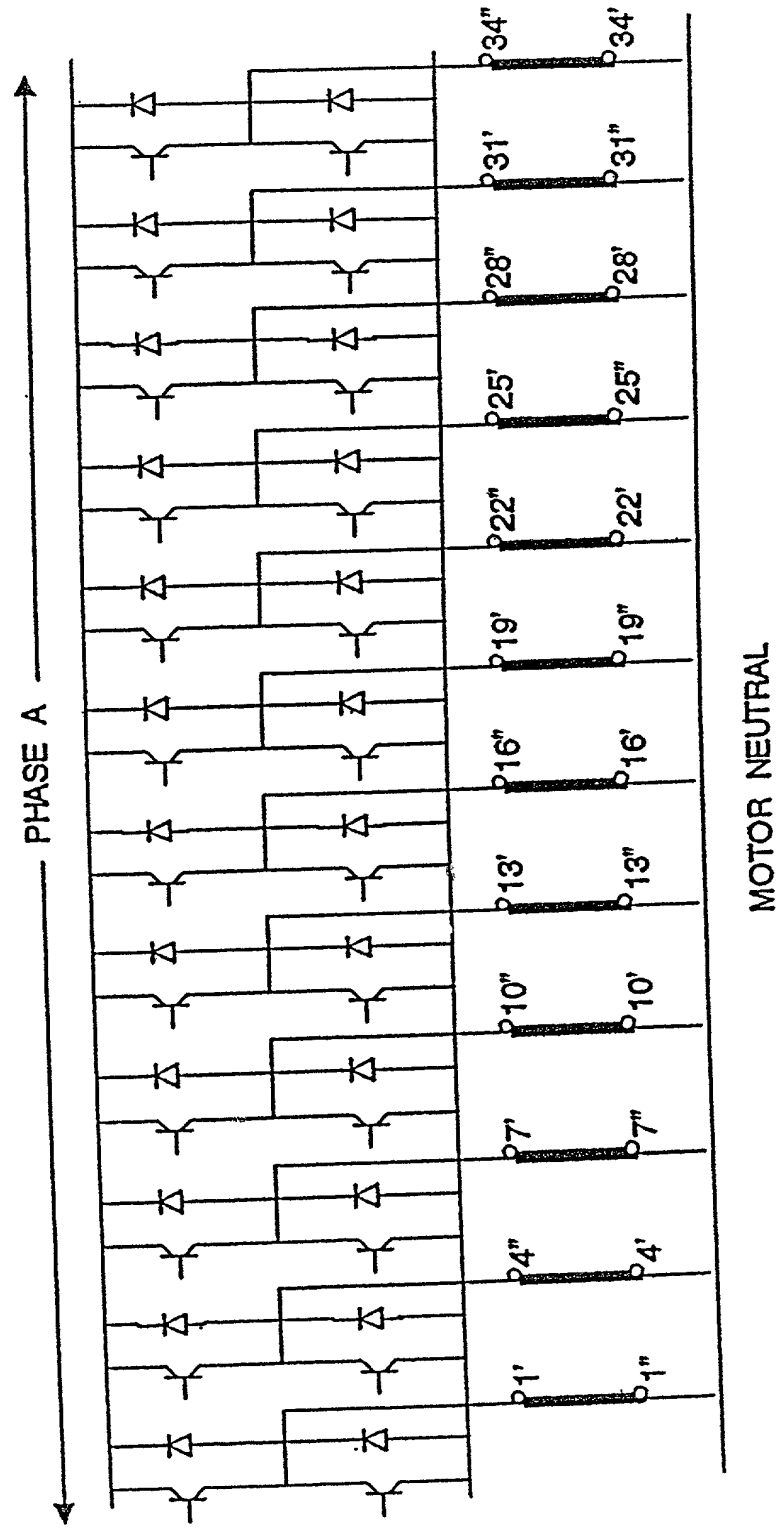


FIG. 1

Phase and coil connections for the 12-pole machine configuration.

Machine pole	Coil Number	Machine Phases					
		+A	+B	+C	-A	-B	-C
N	1	X					
	2					X	
	3			X			
S	4				X		
	5		X				
	6						X
N	7	X					
	8					X	
	9			X			
S	10				X		
	11		X				
	12						X
N	13	X					
	14					X	
	15			X			
S	16				X		
	17		X				
	18						X
N	19	X					
	20					X	
	21			X			
S	22				X		
	23		X				
	24						X
N	25	X					
	26					X	
	27			X			
S	28				X		
	29		X				
	30						X
N	31	X					
	32					X	
	33			X			
S	34				X		
	35		X				
	36						X

FIG. 2



[illegible]

Machine pole	Coil number	MACHINE PHASES																	
		+A	+B	+C	+D	+E	+F	+G	+H	+I	-A	-B	-C	-D	-E	-F	-G	-H	-I
N	1	X																	
	2															X			
	3		X																
	4																X		
	5			X															
	6																	X	
	7				X														
	8																		X
	9					X													
S	10									X									
	11						X												
	12										X								
	13							X											
	14											X							
	15								X										
	16												X						
	17									X									
	18														X				
N	19	X																	
	20															X			
	21		X																
	22																X		
	23			X														X	
	24																		X
	25				X														
	26																		X
	27					X													
S	28									X									
	29						X												
	30										X								
	31							X											
	32											X							
	33								X										
	34												X						
	35									X									
	36														X				

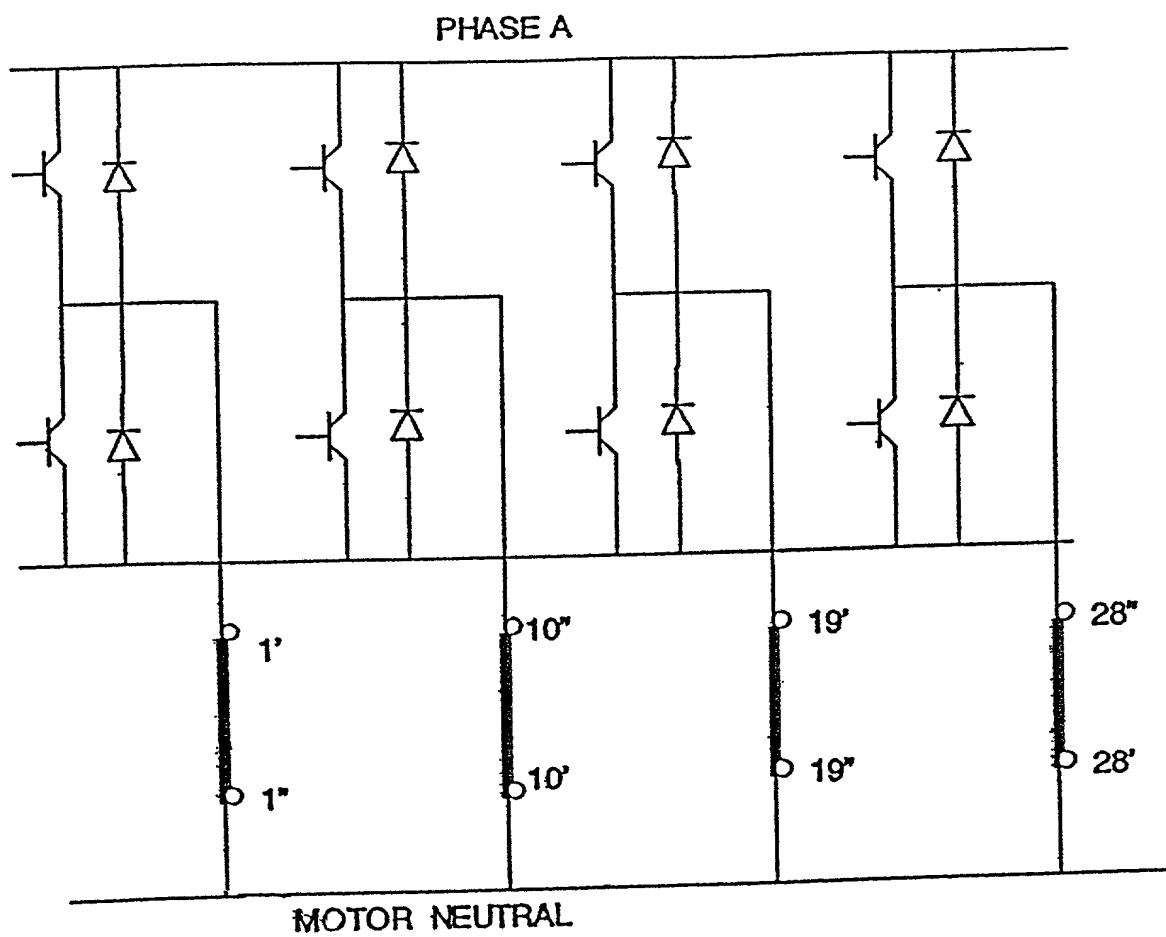


FIG. 4

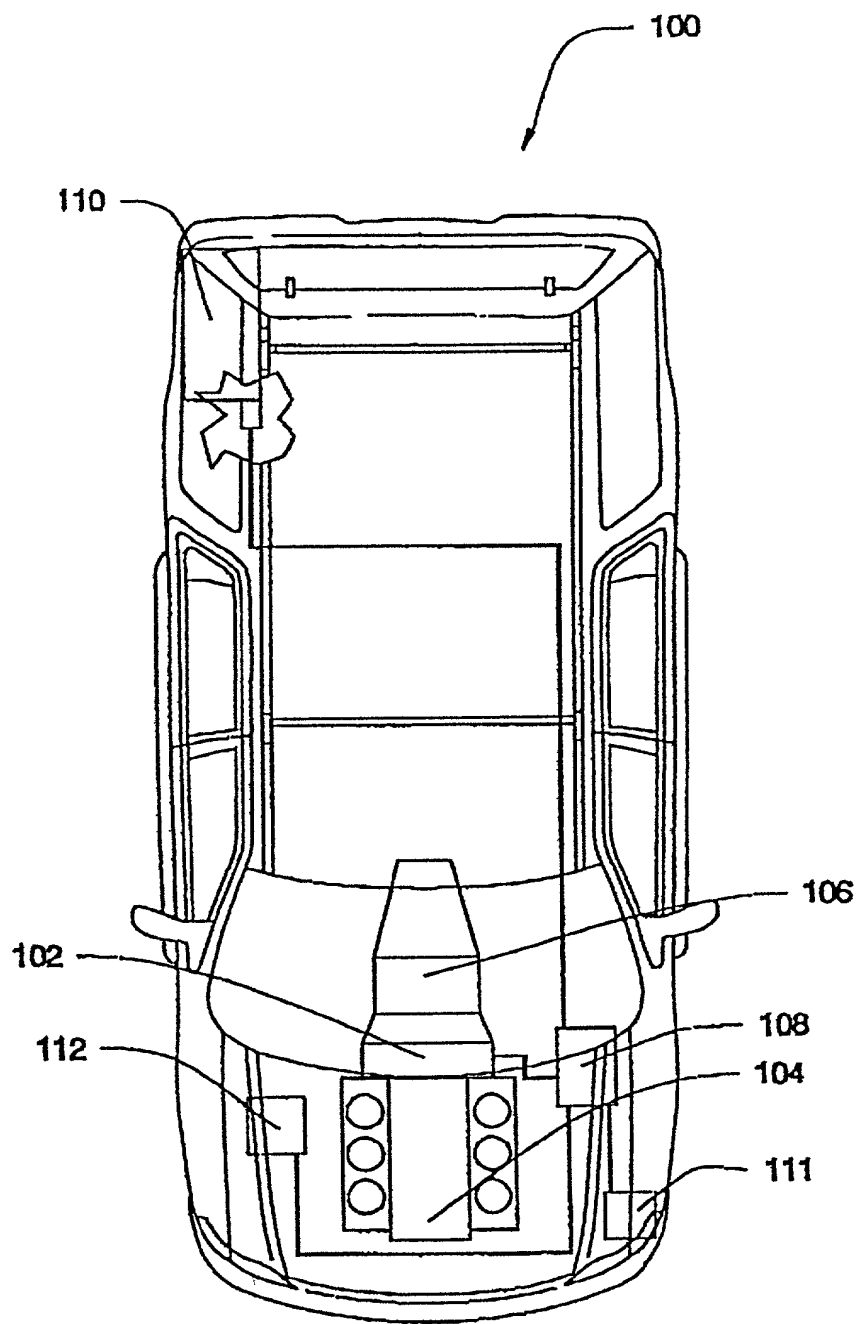


FIG. 5

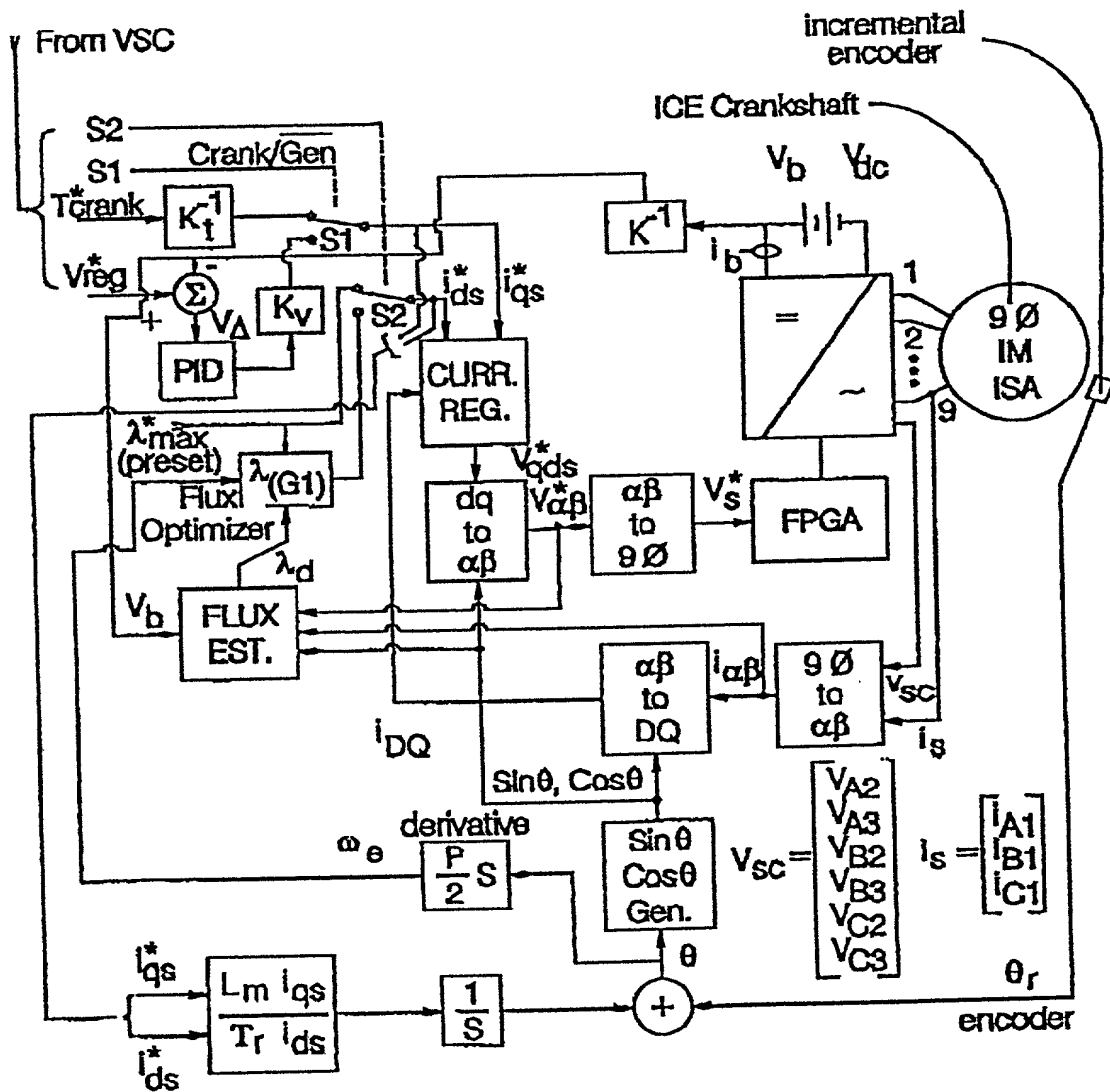


FIG. 8